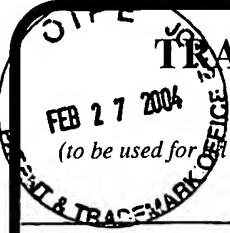



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	Application Number	Not Assigned 10699210
	Filing Date	31 October 2003
	First Named Inventor	BINTORO, Jemmy
	Group Art Unit	Not Assigned
	Examiner Name	Not Assigned
Total Number of Pages in This Submission	Attorney Docket Number	GTRC132


## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s)	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Transmittal of Information Disclosure Statement, Non-U.S. Patent Cited References, and Return Postcard
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## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Troutman Sanders, LLP Ryan A. Schneider, Reg. No. 45,083		
Signature			
Date	23 February 2004		

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date: <u>23 February 2004</u>			
Typed or printed name	Pamela J. Guthardt		
Signature		Date	23 February 2004

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

BINTORO, Jemmy et al

Serial Number: Not Assigned

Filed: 31 October 2003

For: **SINGLE SUBSTRATE**  
**ELECTROMAGNETIC ACTUATOR**



Group Art Unit.: Not Assigned

Examiner: Not Assigned

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (IDS)**  
**AND COPY OF IDS CITATION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Atlanta, GA 30308-2216

Sir:

In accordance with the continuing duty under 37 C.F.R. §1.56 to disclose to the United States Patent and Trademark Office any information that may be material to patentability of the above-identified invention, Applicant hereby submits an *Information Disclosure Statement* listing references presently known to Applicant relating to the above-identified application. Copies of the non-U.S. patent references are also included. The submission of this information shall not be deemed an admission that this information is necessarily material to the patentability of the above-identified application.

No fee is believed to be payable in connection with the filing of this *Information Disclosure Statement* as it is submitted prior to a *First Office Action*. Nonetheless, if a fee is required for entrance of this art, authorization to charge such fees due to deposit account 20-1507 is hereby given.

Respectfully submitted,

Ryan A. Schneider  
Reg. No. 45,083

Troutman Sanders LLP  
Bank of America Plaza  
600 Peachtree Street, N.E., Suite 5200  
Atlanta, Georgia 30308-2216  
Phone: 404.885.2773  
Fax: 404.962.6849

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

She	1	of	4
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Application Number	Not Assigned
Filing Date	31 October 2003
First Named Inventor	BINTORO, Jemmy
Group Art Unit	Not Assigned
Examiner Name	Not Assigned
Attorney Docket Number	GTRC132

[illegible][illegible]

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Sheet 2 of 4

Application Number	Not Assigned
Filing Date	31 October 2003
First Named Inventor	BINTORO, Jemmy
Group Art Unit	Not Assigned
Examiner Name	Not Assigned
Attorney Docket Number	GTRC132

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sub>1</sub>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.	T <sup>2</sup>
		S. BOHM et al., A micromachined silicon valve driven by a miniature bi-stable electro-magnetic actuator, Sensors and Actuators 80 (2000) 77-83	
		YASUHIKO SHINOZAWA et al., A Proportional Microvalve Using a Bi-Stable Magnetic Actuator	
		MIRCEA CAPANU et al., Design, Fabrication, and Testing of a Bistable Electromagnetically Actuated Microvalve, Journal of Microelectromechanical Systems, Vol. 9, No. 2, June 2000	
		A. MECKES et al., Microfluidic system for the integration and cyclic operation of gas sensors, Sensors and Actuators 76 (1999) 478-483	
		HYOUNG J. CHO et al., A Bidirectional Magnetic Microactuator Using Electroplated Permanent Magnet Arrays, Journal of Microelectromechanical Systems, Vol. 11, No. 1, February 2002	
		T. LISEC et al., Thermally Driven Microvalve with Buckling Behavior for Pneumatic Applications, Sensors and Materials, Vol. 8, No. 5 (1996)	
		EDWIN T. CARLEN et al., Surface Micromachined Paraffin-Actuated Microvalve, Journal of Microelectromechanical Systems, Vol. 11, No. 5, October 2002	
		I. CHAKRABORTY et al., MEMS micro-valve for space applications, Sensors and Actuators 83 (2000) 188-193	
		DAVID S. ROBERTS et al., A Piezoelectric Microvalve for Compact High-Frequency, High-Differential Pressure Hydraulic Micropumping Systems, Journal of Microelectromechanical Systems, Vol. 12, No. 1, February 2003	
		PH. DUBOIS et al., Electrostatically Actuated Gas Microvalve based on a Ta-Si-N Membrane	

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Signature

Date  
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Sheet 3 of 4

Application Number	Not Assigned
Filing Date	31 October 2003
First Named Inventor	BINTORO, Jemmy
Group Art Unit	Not Assigned
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Attorney Docket Number	GTRC132

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		M. KOHL et al., Development of stress-optimised shape memory microvalves, Sensors and Actuators 72 (1999) 243-250	
		J. HAJI-BABAEI et al., Integrable Active Microvalve with Surface Micromachined Curled-Up Actuator	
		NELSIMAR VANDELLI et al., Development of a MEMS Microvalve Array for Fluid Flow Control, Journal of Microelectromechanical Systems, Vol. 7, No. 4, December 1998	
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		W.K. SCHOMBURG et al., Design optimization of bistable microdiaphragm valves, Sensors and Actuators A 64 (1998) 259-264	
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		S. MESSNER et al., A Normally-Closed, Bimetallically Actuated 3-Way Microvalve for Pneumatic Applications	
		ANTONIO BALDI et al., A Hydrogel-Actuated Smart Microvalve with a Porous Diffusion Barrier Back-Plate for Active Flow Control	
		ROBIN H. LIU et al., Fabrication and Characterization of Hydrogel-Based Microvalves, Journal of Microelectromechanical Systems, Vol. 11, No. 1, February 2002	

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Sheet

4

of

4

Application Number

Not Assigned

Filing Date

31 October 2003

First Named Inventor

BINTORO, Jemmy

Group Art Unit

Not Assigned

Examiner Name

Not Assigned

Attorney Docket Number

GTRC132

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		JEMMY SUTANTO BINTORO et al., Mechanical and Magnetic Analysis of a Latching Electromagnetic Microvalve	
		JEMMY SUTANTO BINTORO et al., Fabrication of a Bistable Electromagnetic Actuator for Microvalve	
		JEMMY SUTANTO BINTORO et al., A Bistable Electromagnetic Actuated Microvalve with Integrated Switching Mechanism	
		JEMMY SUTANTO BINTORO et al., A Structure of Bistable Electromagnetic Actuated Microvalve Fabricated on a Single Wafer, Implementing the SLA and PDMS Technique	

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